	Application No.	Applicant(s)		
Notice of Allowability	09/894,186		7	
	Examiner	CHAN ET AL.  Art Unit		
	<b>N</b> 111	Alt Gill		
	Matthew J Song	1765		
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) of NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGOT of the Office or upon petition by the applicant. See 37 CFR 1.313	or other appropriate comm	n this application. If not include	d	
1. This communication is responsive to 6/24/2004.				
2. The allowed claim(s) is/are <u>1-13</u> .				
3. ☑ The drawings filed on <u>17 September 2001</u> are accepted by t	he Examiner.			
4. ☐ Acknowledgment is made of a claim for foreign priority und a) ☐ All b) ☐ Some* c) ☐ None of the:  1. ☐ Certified copies of the priority documents have be completed as a copies of the priority documents have be copies of the certified copies of the priority documents have be copies of the certified copies of the priority documents have be copies of the certified copies of the priority documents have be copies of the priority documents have be copies of the certified copies of the priority documents have be copies of th	been received. been received in Application ments have been received this communication to file NT of this application.  bed. Note the attached EXA reason(s) why the oath or the submitted. be submitted. be Satent Drawing Review mendment / Comment or in	on No  If in this national stage application a reply complying with the required MINER'S AMENDMENT or NO declaration is deficient.  ( PTO-948) attached in the Office action of	irements TICE OF	
Identifying indicia such as the application number (see 37 CFR 1.84) each sheet. Replacement sheet(s) should be labeled as such in the IT.  DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT FOR	of RIOLOGICAL MATE	( 1.121(d),		
Attachment(s)				
1. Notice of References Cited (PTO-892)	<ol><li>5. Notice of Info</li></ol>	rmal Patent Application (PTO-1	52)	
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. 🗌 Interview Sun	nmary (PTO-413).		
B. Information Disclosure Statements (PTO-1449 or PTO/SB/08),  Paper No./Mail Date	Paper No./M 7.	lail Date mendment/Comment	l	
Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Si	tatement of Reasons for Allowa	nce	
of Biological Material	9.	The state of the s	iice	
U.S. Patent and Trademark Office	su	NADINE G. NORTON PERVISORY PATENT/SAM	iwer	
PTOL-37 (Rev. 1-04)	of Allowability	Part of Paper No /Ma	il Date 04101	

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## **DETAILED ACTION**

## Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 6/24/2004 has been entered.

## Allowable Subject Matter

- 2. Claims 1-13 are allowed.
- 3. The following is an examiner's statement of reasons for allowance: The closest prior art references are Robinson et al (US 4,001,076) and Dugger (US 3,933,573). Robinson et al teaches producing a thin film with a graded composition through its thickness by slowly cooling the temperature of a growth solution (Abstract). Dugger teaches the degree of supersaturation can be changed by changing the solution temperature or by changing the pressure in the solution. The prior art does not teach or suggest compositionally grading an epitaxial layer by varying the pressure to change the degree of supersaturation during growth to affect the growth of the epitaxial layer.

Referring to claim 13, the closest prior art references are Cook (US 4,519,871) and Dugger (US 3,933,573). Cook teaches two different solutions are employed to form epitaxial layers of two different compositions on a substrate and cooling the solutions in order to develop

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a condition of supersaturation (col 1, ln 20-65). Dugger teaches the degree of supersaturation can be changed by changing the solution temperature or by changing the pressure in the solution (col 3, ln 1-30). The cited prior art does not teach varying the pressure in the chamber between growth of the first epitaxial layer and the at least one further growth solution so as to change the degree of supersaturation of the at least one further growth solution to affect the growth of the at least one further epitaxial layer.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew J Song whose telephone number is 571-272-1468. The examiner can normally be reached on M-F 9:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nadine Norton can be reached on 571-272-1465. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Matthew J Song Examiner Art Unit 1765

MJS

NADINE G. NORTON SUPERVISORY PATENT EXAMINER